



# CITY ENGINEER'S REPORT



**BOWEN**  
 RICHARD L. BOWEN + ASSOCIATES INC.  
 13000 Shaker Boulevard · Cleveland, OH 44120  
 T: 216.491.9300 · F: 216.491.8053 · www.rlba.com

**To:** Mayor Weger & Council  
**cc:** Directors of Law, Finance, Building, & Service  
**From:** Pietro A. DiFranco, Daniel J. Collins, & Kevin Tr  
**Date:** 9/3/2015

Name	RLBA Job #	Stage					Construction Cost (A)ctual (B)id (E)stimate	Engineering Fee (A)ctual (E)stimate	Notes
		Planning	Design	Construct'n	Other	Complete			
Retainer Services	7986.00				X			\$0	02/01/13 2013-15 Agreement: 20 hours/month
G. Bishop-White Intersection	7986.00				X	N/A		\$0	03/14/14 Call rec'd by Mayor Re: traffic congestion 03/20/14 RFP for study sent to qualified traffic engineers 03/31/14 Proposals rec'd from traffic engineers 04/10/14 LJB selected to perform traffic study 05/22/14 LJB performing traffic counts 06/24/14 LJB Study Rec'd; Signal Ok, but no remove stop sign 08/26/14 Mtg w/Cuy Cnty Re: Richmond Rd Bridge MOT Rec'd Stage 1 Plans/Estimate from ODOT. Initial estimate of city cost to include signal is \$100k (2017) 05/19/15
I. OPWC Round 30, PY16	7986.00				X	N/A		\$0	10/14/14 Consider Worrell Rd w/Kirtland 11/20/14 Meeting w/Kirtland Engineer & Mark Grubiss 03/25/15 Sent conceptual proposal to Kirtland 05/08/15 Requested Letter of Support from Kirtland for Worrell 06/05/15 Pre-Application submitted to Lake County Engineer 08/24/15 Received Pre-Application Approval from Lake County
K. SR 91 Resurfacing NOACA Planning FY 2016	7986.00				X	\$1 M (WillHills Portion Only)	E	\$0	04/11/14 NOACA Board Res. 2014-013 passed (PTAM Policy) 04/24/14 NOACA submitted application for TIGER grant 09/15/14 TIGER grant denied 02/04/15 SR 91 Amended to TIP by NOACA 02/19/15 Meeting w/NOACA at City Hall 02/23/15 Rec'd notice & reviewing new ODOT LPA requirements Contacted Willoughby (CT) & NOACA on 3/25, 4/16, & 05/07/15 4/28, awaiting direction 05/20/15 Received draft agreement from CT. Under review.



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		Planning	Design	Construct'n	Other	Complete	(A)ctual	(B)id	(A)ctual	(E)stimate	
											06/23/15 Coord. meeting w/Lake County Engineer & NOACA  07/07/15 County Engineer intends to lead joint project w/Willoughby & Willoughby Hills, but will select independent engineer for design (not CT or Bowen)
L. Misc.	7986.00				X		N/A		\$0		03/18/15 OEPA NPDES MS4 Storm Water Muni Complex walk-around w/CRWP & Mark G. 05/19/15 Rec'd CRWP memo following 3/18 walk-around 06/04/15 Contacted by CSWCD about Habitat Planning Grant for Euclid Creek 08/14/15 Potential stream restoration site visit w/Claire P.
Maple Valley Subdivision Construction Engineering	7986.12A				X		N/A		Applicant Fee		09/19/14 Partial bond release request from developer 11/20/14 Starting Maintenance Bond and Dedication Process 12/11/14 Council R-O-W dedication acceptance 01/01/15 Monitoring SWP3 & 2-Year Bond Items 01/22/15 Received As-Built Drawings Sent letter directing developer (Osborne) to address drainage items 07/02/15  08/19/15 Developer rec'd 3rd violation notice from LCSWCD; No further building permits will be issued until mitigated
Clover Congregate Care 34900 Chardon Rd Construction Engineering	7986.12C		X				N/A		Applicant Fee		06/04/14 Start of construction 01/01/15 Monitoring sitework
Knecht/O'Brien Culvert 29341 & 29329 Eddy Rd	7986.08	X					\$200,000	E	TBD		02/15/13 Met w/Tim Miller, Lake County 03/09/13 Funding request sent to County; under review 05/01/13 Met w/Tim Miller to discuss status & plan 07/12/13 On-hold pending Lake County authorization 09/09/13 Received Lake County approval to proceed w/design \$180,000 E      \$21,750 E



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		Planning	Design	Construct'n	Other	Complete	(A)ctual	(B)id	(A)ctual	(E)stimate	
							\$196,926	E			10/01/13 Survey field work began 01/16/14 Preliminary design complete for Lake County review 03/30/14 Revised plans sent to Lake County for approval 06/13/14 Email from Tim Miller providing direction to redesign 07/23/14 Plans resubmitted to County for approval 09/18/14 Addressing property owner concerns with work 12/02/14 Met w/Knecht & Capelli & finalizing revised design 12/16/14 Sent final plans to LCSWMD for approval 12/29/14 Plans approved by LCSWMD 01/21/15 Progress meeting w/Tim Miller, Gloria, & Frank B. 01/22/15 Council motion to bid received 02/05/15 Public Bid Advertisement (News Herald & City Web) 02/26/15 Received contractor bids 03/06/15 Woodford Excav. recommended as lowest & best bid 03/26/15 Award by Council 04/21/15 Preconstruction Meeting Material submittals rec'd & approved. Awaiting 05/19/15 estimated delivery date from precast supplier 06/15/15 Woodford mobilized and began excavation 07/02/15 Construction ongoing slowly due to rain 07/16/15 Pipe installation complete Landscaping & Concrete Pad Installed; Project 09/01/15 substantially complete
Lamplight Lane Culvert (formerly Euclid Creek East Branch Drainage Improvements)	7986.09	X					\$450,000	E	\$0		02/01/13 Invoiced by CT so far: \$21,531 (for old design) 02/15/13 Met w/Tim Miller, Lake County 02/15/13 County pledged \$361,000 (for new design) 02/20/13 Reviewing 2000 CT Study & Recommendations 05/01/13 Met w/Tim Miller to discuss status & plan 09/09/13 Discussed at Council Service Committee Meeting 12/12/13 Mtg w/Tim Miller to discuss Lamplight & 2014 projects \$245,506 E      \$27,913 E 01/03/14 Proposal sent to Tim Miller for approval 01/28/14 Service Committee Mtg for legislation to proceed 02/13/14 Appropriation Ord. 2014-18 for design passed



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Name	RLBA Job #	Stage					Construction Cost		Engineering Fee	Notes
		Planning	Design	Construction	Other	Complete	(A)ctual	(B)id		
							\$271,827	E		04/14/14 Informational meeting for residents (City Hall-6:30 pm) 12/08/14 Sent final plans to LCSWMD for approval 12/29/14 Plans approved by LCSWMD 01/21/15 Progress meeting w/Tim Miller, Gloria, & Frank B. 01/22/15 Council motion to bid received 02/05/15 Public Bid Advertisement (News Herald & City Web) 02/26/15 Received contractor bids 03/06/15 Long Sewer Const. recommended as lowest & best bid 03/26/15 Award by Council 04/17/15 Preconstruction Meeting 05/07/15 Dominion completing work started 4/22 05/15/15 Longo finished CEI duct work (CEI to follow 6/1). 06/02/15 CEI work complete 07/01/15 Demo of headwalls started 07/16/15 foundation construction 09/02/15 West lane of concrete roadway poured
							\$265,892	B		
Plan Reviews	7986.14									
2377 Michelle Ct - House	A				X		N/A	Applicant	01/16/15	Permit Application Received
2881 Rockefeller Rd - House	B				X		N/A	Applicant	01/29/15	Permit Application Received
36802 Beech Hill Dr - House	C				X		N/A	Applicant	03/23/15	Permit Application Received
29365 White Rd - House	D				X		N/A	Applicant	04/13/15	Permit Application Received
2876 Fowler Dr - House	E				X		N/A	Applicant	05/12/15	Permit Application Received
2542 Maple Hill Rd - House	F				X		N/A	Applicant	06/02/15	Permit Application Received
29285 Willow Ln - House	G				X		N/A	Applicant	06/04/15	Permit Application Received
37601 Eagle Rd - Addition	H				X		N/A	Applicant	06/04/15	Permit Application Received
2802 SOM Ctr Rd - Faralli	I				X		N/A	Applicant	07/24/15	Permit Application Received
2537 Maplevue Ln - House	J				X		N/A	Applicant	08/04/15	Permit Application Received
28500 Chardon Rd - Small Ce	K				X		N/A	Applicant	08/04/15	Permit Application Received
2366 Rivers Edge - House	L				X		N/A	Applicant	08/07/15	Permit Application Received
2328 Rivers Edge - House	M				X		N/A	Applicant	08/19/15	Permit Application Received



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		Planning	Design	Construct'n	Other	Complete	(A)ctual	(B)id	(A)ctual	(E)stimate	
Construction Supervision	7986.15										
Dunkin Donuts - 2801 Bishop	A			X			N/A		Applicant		03/11/15 All fees paid; Pending GC identification 05/25/15 Construction Start
Pleasant Valley Rd Resurfacing (Chagrin River East to Chardon)	7986.16						\$179,870 E		\$17,991 E		11/13/14 Motion by Council authorizing bids 02/05/15 Awaiting PO from Finance for engineering 02/19/15 Preparing docs for public bid 03/05/15 Public Bid Advertisement (News Herald & City Web) 03/26/15 Received contractor bids 04/07/15 Specialized Const. recommended as lowest & best bid 05/07/15 Precon Meeting 05/26/15 Tentative Construction Start Date 05/29/15 Asphalt Recycling Complete Installation of intermediate & surface asphalt courses anticipated 06/29/15 07/16/15 Final asphalt surface course planned for 7/19/15 09/03/15 Performing final walk-thru / punch-list
Eddy Rd Resurfacing (I-271 to Rockefeller)	7986.17						\$218,505 E		\$20,888 E		11/13/14 Motion by Council authorizing bids 02/05/15 Awaiting PO from Finance for engineering 02/19/15 Preparing docs for public bid 03/05/15 Public Bid Advertisement (News Herald & City Web) 03/26/15 Received contractor bids 04/07/15 Specialized Const. recommended as lowest & best bid 05/07/15 Precon Meeting 05/26/15 Tentative Construction Start Date 05/28/15 Asphalt Recycling Complete Installation of intermediate & surface asphalt courses anticipated 06/29/15 07/16/15 Final asphalt surface course planned for 7/19/15 09/03/15 Performing final walk-thru / punch-list
							\$210,000 E				
							\$192,359 B				



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		Planning	Design	Construct'n	Other	Complete			
2015 Pavement Markings (All Public Streets)	7986.TBD						\$55,000 E	\$6,600 E	01/22/15 Motion from Council authorizing bids
							\$55,000 E		02/05/15 Awaiting PO from Finance for engineering
							\$44,300 B		02/19/15 Preparing docs for public bid
							\$43,133 A		03/05/15 Public Bid Advertisement (News Herald & City Web)
								03/26/15 Received contractor bids	
								04/07/15 Pat Flowers recommended as lowest & best bid	
								05/21/15 Precon Meeting	
								07/14/15 All markings except SR-91 complete	
							\$5,176 A	08/14/15 Project complete	

No.	Name	Concept Cost Estimate	Nominated By	Rank (1-10)	Health / Safety Need	Benefited Users / Area	Infrast. Cond.	Infrast. Age	Comm. / Econ Dev't	Prevent. Maint.	Other	Notes:
0	Weights				0.4	0.2	0.15	0.1	0.05	0.05	0.05	
1	Eagle Rd - Riviera Ridge to Red Fox Pass	\$160,000	Nate	5.85	7	6	7	4	1	7	0	1. Install curb, catch basins, & storm sewer to address slope erosion & road deterioration 2. Westerman-2496 Red Fox pass
2	River Rd South - Chardon to Squaires Castle	\$120,000	Nate	5.45	6	6	7	4	1	7	0	1. Install curb, catch basins, & storm sewer to address slope erosion, ditch erosion, & deteriorating road 2. Crane-2772 River Rd; Neundorfer-2771 River Rd; & 2829, 2835, 2841 (letter rec'd 7/27/15)
3	Euclid Creek North Tributary Cleaning (at Rockefeller)	\$20,000	Pietro	5.50	6	8	4	3	3	7	2	1. Improves upstream of Rockefeller 2. Kent Winter-2900 Lamplight; Kolaric-2929 Gatsby
4	Pleasant Valley - West of River	\$100,000	Nate	5.45	6	6	7	4	1	7	0	1. Install catch basins and storm sewer to address roadside ditch erosion & road deterioration 2. Currently requires significant Service Dept. maintenance effort
5	2870-2876 Fowler Channel Cleaning	\$20,000	Pietro	3.70	4	4	4	3	1	5	2	1. Clean channel to improve flow and reduce back-up 2. Flow from Fowler joins flow from Rosewood at I-271 3. 6/27/15 flooding reported by Strugill-2870 Fowler & McCarthy-2864 Fowler
6	36600 Maple Grove Rd Channel Cleaning (near Gr	\$20,000	Mark G.	3.50	4	4	3	3	1	5	1	1. Clean channel to improve flow & reduce back-up 2. Beyerle-36600 Maple Grove; Raymond-2466 River
7	2476 Mapleview Ln Pipe Extension & Slope Stabiliz	\$50,000	Nate/Tim	2.75	3	4	2	2	1	3	1	1. Pipe extension & slope stabilization to stabilize slopes and prevent erosion 2. Orikuchi-2476 Mapleview; Sullivan-2472 Mapleview
8	Strawberry Pond Tributary Area	\$100,000	Pietro	2.05	2	3	2	2	1	1	1	1. Metroparks intends to adjust pound outlet to increase discharge flow 2. City to consider constructing detention pond to increase capacity upstream 3. See Metroparks Drainage Study dated April 2015
9	Eagle-Kennelly Drainage Improvements	\$50,000	Nate	1.95	2	2	3	2	1	1	0	1. Install 400 lf of 18-inch storm to increase capacity & reduce back-up
10	Gatsby-Kourtney Drainage	TBD	Pietro	1.95	1	6	1	1	1	1	0	
11	Service Dept. Yard Improv't (i.e. - roof, berm, spill k	\$60,000	Pietro	1.85	2	2	2	2	0	2	1	1. See 5/19/15 CRWP Memo
12	Marcum-Parkview	\$50,000	Fulton/Ota	1.80	1	4	2	2	1	1	0	1. Yard Flooding 2. Clean roadside ditches; & potential install overflow pipe to I-271 3. Fulton-2990 Marcum; Ota-2960 Marcum; Wilson-33850 Marcum
13	38000 Pleasant Valley Rd Channel Cleaning	\$10,000	Mark G.	1.80	2	2	2	2	1	1	0	1. Clean channel to improve flow & reduce back-up 2. Lanphear-38000 Pleasant Valley Rd
14	Rosewood Trail	TBD	Pietro	1.55	1	4	1	1	1	1	0	1. Tilenni-34155 Rosewood
15	29274-29320 White Rd Ditch	TBD	Pietro	1.15	1	2	1	1	1	1	0	1. Rear yard flooding. Properties located within floodplain 2. Ed Veider-29320 White Rd
16	River Rd North - Replace storm sewer	\$140,000	Nate	0.00								1. Appropriation tabled by Council on 9/11/14
17	Dodd Rd at Eagle Nest drainage	\$40,000	Nate	0.00								1. Funding requested from Lake Co. on 6/2/14
18	Dodd Rd at Cage Area drainage	\$110,000	Nate	0.00								
19	Stark Dr. - Replace & add storm sewer	\$110,000	Nate	0.00								
20	Worrell Rd - Curb & Storm Sewer (1/2 by Kirtland)	\$360,000	Nate	0.00								
21	Rockefeller Rd - Pipe ditches	\$650,000	Nate	0.00								
22	Erich Dr. - Replace storm sewer	\$180,000	Nate	0.00								
23	Oak St. - Replace storm sewer	\$170,000	Nate	0.00								
24	Martin, Dixon, Forest Subdivision	\$570,000	Nate	0.00								
25	Trabar Dr. - Replace storm sewer	\$150,000	Nate	0.00								
26	Orchard Dr. - Replace storm sewer	\$150,000	Nate	0.00								
27	Rogers Rd - Ditching and drive culverts	\$170,000	Nate	0.00								1. Lake Co. PO received 10/13/14

\$3,560,000

**Notes:**

- 1 Estimated costs are conceptual
- 2 Rankings and priorities are a work-in-progress and may change

2015 Construction Progress Photos  
Knecht-O'Brien Channel Restoration, Willoughby Hills, Ohio



Figure 1 Inlet Headwall 8/14/15



Figure 3 New Swale & Landscaping 9/1/15



Figure 2 Final Rough Grading 8/20/15



Figure 4 Grass Growing 9/1/15

2015 Construction Progress Photos  
Lamplight Lane Culvert, Willoughby Hills, Ohio



Figure 1 New East Headwall 8/6/15



Figure 3 New West Headwall 8/14/15



Figure 2 New East Headwall 8/14/15



Figure 4 West Roadway Lane Base Preparation 9/1/15